

RF TEST REPORT

For

Chengdu Biwei Kedi Optoelectronic Technology Co., Ltd Product Name: LED fiber optic Light

Test Model(s).: BV-3-300-RGB

Report Reference No. : POCE240407002RL001

FCC ID : 2BFTQ-RGB-300

Applicant's Name : Chengdu Biwei Kedi Optoelectronic Technology Co., Ltd

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Test Specification Standard : 47 CFR Part 15.247

Date of Receipt : April 7, 2024

Date of Test : April 7, 2024 to April 11, 2024

Data of Issue : April 11, 2024

Result : Pass

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Revision History Of Report

Version	Description	REPORT No.	Issue Date
V1.0	Original	POCE240407002RL001	April 11, 2024
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NOTE1:

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

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1 TEST SUMMARY

1.1 Test Standards

The tests were performed according to following standards:

47 CFR Part 15.247: Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz

1.2 Summary of Test Result

Item	Standard	Method	Requirement	Result
Antenna requirement	47 CFR Part 15.247		47 CFR 15.203	Pass
Occupied Bandwidth	47 CFR Part 15.247	ANSI C63.10-2013, section 11.8 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(a)(2)	Pass
Maximum Conducted Output Power	47 CFR Part 15.247	ANSI C63.10-2013, section 11.9.1 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(b)(3)	Pass
Power Spectral Density	47 CFR Part 15.247	ANSI C63.10-2013, section 11.10 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(e)	Pass
Emissions in non-restricted frequency bands	47 CFR Part 15.247	ANSI C63.10-2013 section 11.11 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(d), 15.209, 15.205	Pass
Band edge emissions (Radiated)	47 CFR Part 15.247	ANSI C63.10-2013 section 6.10 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(d), 15.209, 15.205	Pass
Emissions in frequency bands (below 1GHz)	47 CFR Part 15.247	ANSI C63.10-2013 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(d), 15.209, 15.205	Pass
Emissions in frequency bands (above 1GHz)	47 CFR Part 15.247	ANSI C63.10-2013 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(d), 15.209, 15.205	Pass



2 GENERAL INFORMATION

2.1 Client Information

Applicant's Name : Chengdu Biwei Kedi Optoelectronic Technology Co., Ltd

Address : No.401-2, Silicon Valley Talent Entrepreneurship Building, No.66 Dayu East

Road, Deyuan Town, Pidu District, Chengdu City

Manufacturer : Chengdu Biwei Kedi Optoelectronic Technology Co., Ltd

Address : No.401-2, Silicon Valley Talent Entrepreneurship Building, No.66 Dayu East

Road, Deyuan Town, Pidu District, Chengdu City

2.2 Description of Device (EUT)

Product Name:	LED fiber optic Light
Model/Type reference:	BV-3-300-RGB
Series Model:	BV-3-200-RGB, BV-3-400-RGB,BV-3-500-RGB
Model Difference:	The product has many models, only the model name is different, and the other parts such as the circuit principle, pcb and electrical structure are the same.
Trade Mark:	N/A
Power Supply:	DC:12V
Operation Frequency:	2402MHz to 2480MHz
Number of Channels:	40
Modulation Type:	GFSK
Antenna Type:	Integral antenna
Antenna Gain:	0dBi
Hardware Version:	V1.0
Software Version:	V1.0

2.3 Description of Test Modes

No	Title	Description
TM1	Lowest channel	Keep the EUT connect to DC power line and works in continuously transmitting mode with GFSK modulation.
TM2	Middle channel	Keep the EUT connect to DC power line and works in continuously transmitting mode with GFSK modulation.
ТМ3	Highest channel	Keep the EUT connect to DC power line and works in continuously transmitting mode with GFSK modulation.

2.4 Description of Support Units

Title	Manufacturer	Model No.	Serial No.
Battery (DC12V)	Camel	DC12V	CE
PC	Lenovo	Air 14 Plus	



2.5 Equipments Used During The Test

Emissions in non-restricted frequency bands

Occupied Bandwidth

Maximum Conducted Output Power

Power Spectral Density

1. One openial control					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
RF Test Software	TACHOY	RTS-01	V2.0.0.0	1	/
High Pass filter	ZHINAN	OQHPF1-M1.5- 18G-224	6210075	1	/
Power divider	MIDEWEST	PWD-2533	SMA-79	2023-05-11	2026-05-10
DC power	HP	66311B	38444359		/
Power Meter	Keysight	E4416A	MY5303506	2023-12-10	2024-12-09
RF Sensor Unit	Tachoy Information Technology(she nzhen) Co.,Ltd.	TR1029-2	000001	1	1
Wideband radio communication tester	R&S	CMW500	113410	2023-06-13	2024-06-12
Vector signal generator	Keysight	N5181A	MY48180415	2023-11-09	2024-11-08
Signal generator	Keysight	N5182A	MY50143455	2023-11-09	2024-11-08
Spectrum Analyzer	Keysight	N9020A	MY53420323	2023-12-12	2024-12-11

Band edge emissions (Radiated)

Band edge emissions (Radiated)					
	Emissions in frequency bands (below 1GHz)				
Emissions in frequence	y bands (above 10	iHZ)		Г	
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test software	Farad	EZ -EMC	V1.1.42	1	/
Positioning Controller	OCE	MF-7802	OCE	1	1
High Pass filter	ZHINAN	OQHPF1-M1.5- 18G-224	6210075	1	/
Amplifier(18-40G)	COM-POWER	AH-1840	10100008-1	2022-04-05	2025-04-04
Horn antenna	COM-POWER	AH-1840 (18-40G)	10100008	2023-04-05	2025-04-04
Loop antenna	ZHINAN	ZN30900C	ZN30900C	2021-07-05	2024-07-04
Cable(LF)#2	Schwarzbeck	1	1	2024-02-19	2025-02-18
Cable(LF)#1	Schwarzbeck	1	1	2024-02-19	2025-02-18
Cable(HF)#2	Schwarzbeck	AK9515E	96250	2024-03-20	2025-03-19
Cable(HF)#1	Schwarzbeck	SYV-50-3-1	1	2024-03-20	2025-03-19
Power amplifier(LF)	Schwarzbeck	BBV9743	9743-151	2023-06-13	2024-06-12
Power amplifier(HF)	Schwarzbeck	BBV9718	9718-282	2023-06-13	2024-06-12

V1.0

Wideband radio communication tester	R&S	CMW500	113410	2023-06-13	2024-06-12
Spectrum Analyzer	R&S	FSP30	1321.3008K40 -101729-jR	2023-06-14	2024-06-13
Horn Antenna	Sunol Sciences	DRH-118	A091114	2023-05-13	2025-05-12
Broadband Antenna	Sunol Sciences	JB6 Antenna	A090414	2023-05-21	2025-05-20
Test Receiver	R&S	ESCI	102109	2023-06-13	2024-06-12

2.6 Statement Of The Measurement Uncertainty

Test Item	Measurement Uncertainty	PU
Occupied Bandwidth	±3.63%	-
RF conducted power	±0.733dB	
RF power density	±0.234%	
Conducted Spurious emissions	±1.98dB	
Radiated Emission (Above 1GHz)	±5.46dB	
Radiated Emission (Below 1GHz)	±5.79dB	

Note: (1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

2.7 Identification of Testing Laboratory

Company Name:	Shenzhen POCE Technology Co., Ltd.
Address:	101-102 Building H5 & 1/F., Building H, Hongfa Science & Technology Park, Tangtou, Shiyan, Bao'an District, Shenzhen, Guangdong, China
Phone Number:	+86-13267178997
Fax Number:	86-755-29113252

Identification of the Responsible Testing Location

Company Name:	Shenzhen POCE Technology Co., Ltd.
Address:	101-102 Building H5 & 1/F., Building H, Hongfa Science & Technology Park, Tangtou, Shiyan, Bao'an District, Shenzhen, Guangdong, China
Phone Number:	+86-13267178997
Fax Number:	86-755-29113252
FCC Registration Number:	0032847402
Designation Number:	CN1342
Test Firm Registration Number:	778666
A2LA Certificate Number:	6270.01

2.8 Announcement

- (1) The test report reference to the report template version v0.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) This document may not be altered or revised in any way unless done so by POCE and all revisions are duly noted in the revisions section.
- (5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- (6) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

101-102 Building H5 & 1/F., Building H,Hongfa Science & Technology Park,Tangtou, Shiyan, Bao'an District, Shenzhen, Guangdong, China Web:http://www.poce-cert.com Tel: 86-755-29113252 E-mail: service@poce-cert.com Page 9 of 50



3 Evaluation Results (Evaluation)

3.1 Antenna requirement

Test Requirement:

Refer to 47 CFR Part 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

3.1.1 Conclusion:





4 Radio Spectrum Matter Test Results (RF)

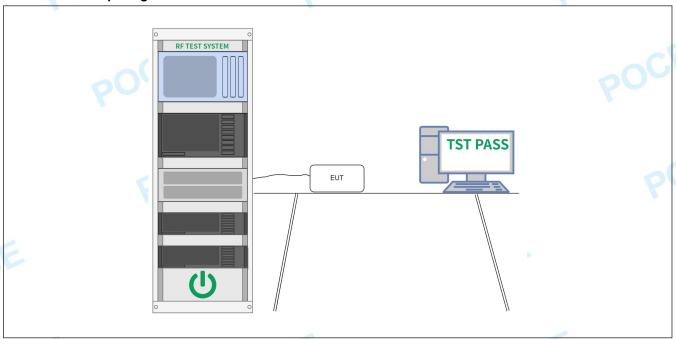
4.1 Occupied Bandwidth

Test Requirement:	47 CFR 15.247(a)(2)
Test Limit:	Refer to 47 CFR 15.247(a)(2), Systems using digital modulation techniques may operate in the 902-928 MHz, and 2400-2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.
Test Method:	ANSI C63.10-2013, section 11.8 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	a) Set RBW = 100 kHz. b) Set the VBW >= [3 × RBW]. c) Detector = peak. d) Trace mode = max hold. e) Sweep = auto couple. f) Allow the trace to stabilize. g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.
	the fundamental emission.

4.1.1 E.U.T. Operation:

Operating Environment:						
Temperature:	22.8 °C		Humidity:	49.7 %	Atmospheric Pressure:	102 kPa
Pretest mode:		TM1,	TM2, TM3		6	
Final test mode:		TM1,	TM2, TM3	00		OCL

4.1.2 Test Setup Diagram:



4.1.3 Test Data:

Please Refer to Appendix for Details.

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4.2 Maximum Conducted Output Power

4.2 Maximum Cond	
Test Requirement:	47 CFR 15.247(b)(3)
Test Limit:	Refer to 47 CFR 15.247(b)(3), For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.
Test Method:	ANSI C63.10-2013, section 11.9.1 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2013, section 11.9.1 Maximum peak conducted output power Note: Per ANSI C63.10-2013, if there are two or more antnnas, the conducted powers at Core 0, Core 1,, Core i were first measured separately, as shown in the section above(this product olny have one antenna). The measured values were then summed in linear power units then converted back to dBm. Per ANSI C63.10-2013 Section 14.4.3.2.3, the directional gain is calculated using the following formula, where GN is the gain of the nth antenna and NANT, the total number of antennas used. For correlated unequal antenna gain Directional gain = 10*log[(10G1/20 + 10G2/20 + + 10GN/20)2 / NANT] dBi For completely uncorrelated unequal antenna gain Directional gain = 10*log[(10G1/10 + 10G2/10 + + 10GN/10)/ NANT] dBi Sample Multiple antennas Calculation: Core 0 + Core 1 +Core i. = MIMO/CDD (i is the number of antennas) (#VALUE! mW + mW) = #VALUE! mW = dBm Sample e.i.r.p. Calculation: e.i.r.p. (dBm) = Conducted Power (dBm) + Ant gain (dBi)

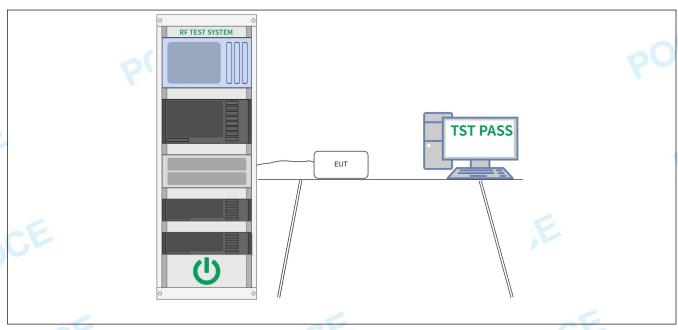
4.2.1 E.U.T. Operation:

Operating Environment:						
Temperature:	22.8 °C		Humidity:	49.7 %	Atmospheric Pressure:	102 kPa
Pretest mode:	0	TM1,	TM2, TM3		000	
Final test mode:		TM1,	TM2, TM3			

4.2.2 Test Setup Diagram:

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4.2.3 Test Data:

Please Refer to Appendix for Details.



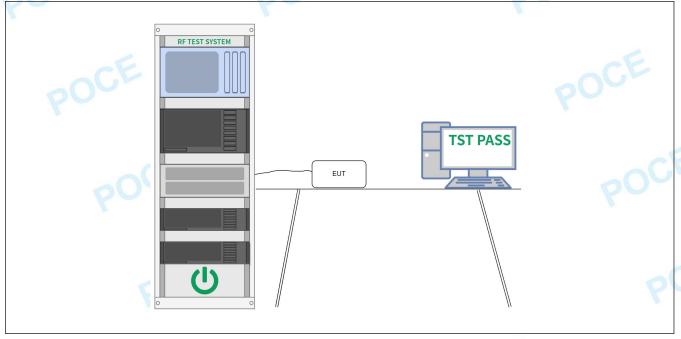
4.3 Power Spectral Density

Test Requirement:	47 CFR 15.247(e)
Test Limit:	Refer to 47 CFR 15.247(e), For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.
Test Method:	ANSI C63.10-2013, section 11.10 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2013, section 11.10, Maximum power spectral density level in the fundamental emission

4.3.1 E.U.T. Operation:

Operating Environment:					PO.	
Temperature:	22.8 °C		Humidity:	49.7 %	Atmospheric Pressure:	102 kPa
Pretest mode:		TM1,	TM2, TM3			
Final test mode	•	TM1,	TM2, TM3	CE		CE

4.3.2 Test Setup Diagram:



4.3.3 Test Data:

Please Refer to Appendix for Details.

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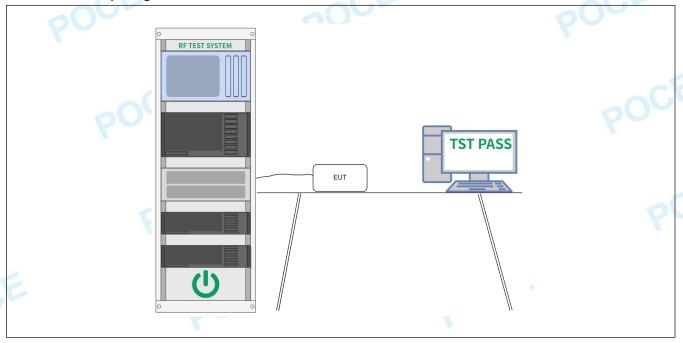
4.4 Emissions in non-restricted frequency bands

Test Requirement:	47 CFR 15.247(d), 15.209, 15.205
Test Limit:	Refer to 47 CFR 15.247(d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required.
Test Method:	ANSI C63.10-2013 section 11.11 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2013 Section 11.11.1, Section 11.11.2, Section 11.11.3

4.4.1 E.U.T. Operation:

Operating Envir	onment:			OCF		OCH
Temperature:	22.8 °C		Humidity:	49.7 %	Atmospheric Pressure:	102 kPa
Pretest mode:		TM1,	TM2, TM3		_	
Final test mode	:	TM1,	TM2, TM3			

4.4.2 Test Setup Diagram:



4.4.3 Test Data:

Please Refer to Appendix for Details.

101-102 Building H5 & 1/F., Building H,Hongfa Science & Technology Park,Tangtou, Shiyan, Bao'an District, Shenzhen, Guangdong, China Web:http://www.poce-cert.com Tel: 86-755-29113252 E-mail: service@poce-cert.com Page 15 of 50



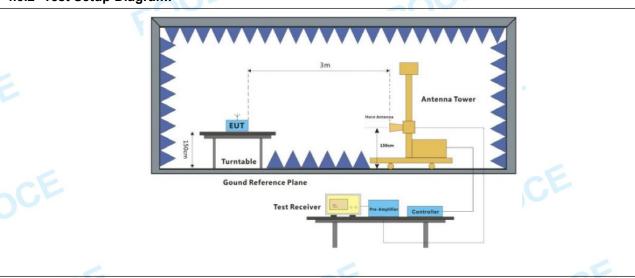
4.5 Band edge emissions (Radiated)

Test Requirement:	Refer to 47 CFR 15.247(d), In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).`				
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)		
	0.009-0.490	2400/F(kHz)	300		
	0.490-1.705	24000/F(kHz)	30		
	1.705-30.0	30	30		
	30-88	100 **	3		
CE	88-216	150 **	3		
	216-960	200 **	3		
	Above 960	500	3		
POCE	radiators operating under th 54-72 MHz, 76-88 MHz, 174 these frequency bands is perand 15.241. In the emission table above, The emission limits shown in employing a CISPR quasi-pullibrian 110-490 kHz and above 100	agraph (g), fundamental emissions is section shall not be located in the lact of the lact	ne frequency bands ever, operation within s part, e.g., §§ 15.231 d edges. easurements ncy bands 9–90 kHz,		
Test Method:	ANSI C63.10-2013 section (KDB 558074 D01 15.247 M		Y		
Procedure:	ANSI C63.10-2013 section 6	6.10.5.2			

4.5.1 E.U.T. Operation:

Operating Environment:			
Temperature: 22.8 °C	Humidity: 49.7 % Atmospheric Pressure: 102 kPa		
Pretest mode:	TM1, TM2, TM3		
Final test mode:	TM1, TM2, TM3		

4.5.2 Test Setup Diagram:

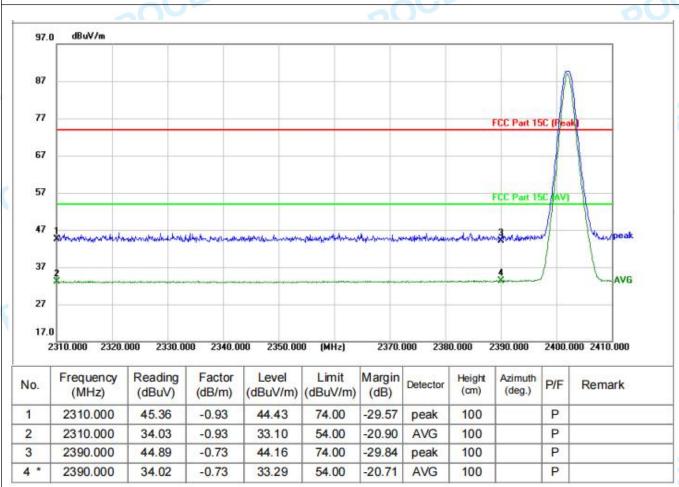




4.5.3 Test Data:

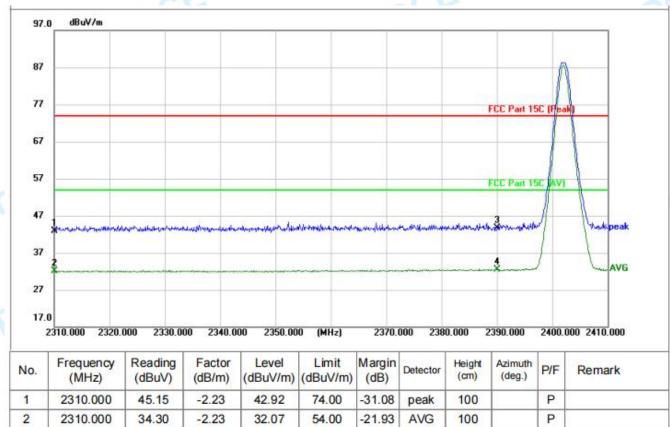
TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: L

V1.0





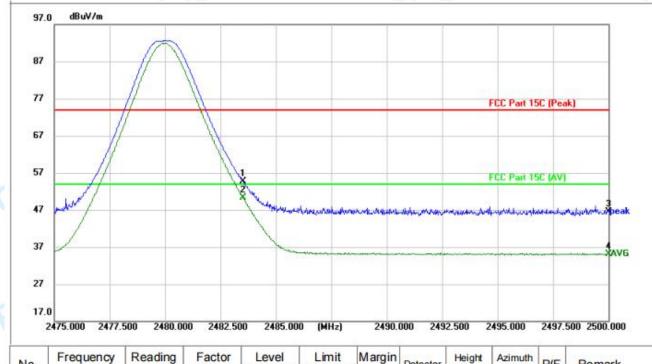
TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: L



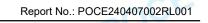


TM3 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: H

V1.0

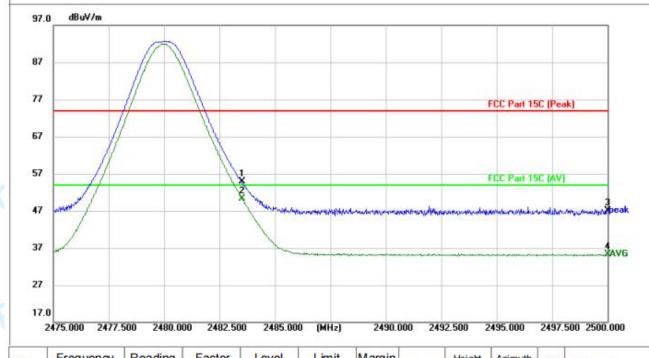


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	(dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	2483.500	53.19	1.44	54.63	74.00	-19.37	peak	100		Р	
2 *	2483.500	48.81	1.44	50.25	54.00	-3.75	AVG	100		Р	
3	2500.000	44.96	1.50	46.46	74.00	-27.54	peak	100		Р	
4	2500.000	33.55	1.50	35.05	54.00	-18.95	AVG	100		Р	
									-		





TM3 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	2483.500	53.38	1.44	54.82	74.00	-19.18	peak	100		Р	
2 *	2483.500	48.93	1.44	50.37	54.00	-3.63	AVG	100		Р	
3	2500.000	45.62	1.50	47.12	74.00	-26.88	peak	100		Р	
4	2500.000	33.75	1.50	35.25	54.00	-18.75	AVG	100		Р	



4.6 Emissions in frequency bands (below 1GHz)

Test Requirement:	restricted bands, as defined	In addition, radiated emissions w in § 15.205(a), must also comply § 15.209(a)(see § 15.205(c)).`	
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
CE	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
POCE	54-72 MHz, 76-88 MHz, 174 these frequency bands is per and 15.241. In the emission table above The emission limits shown i employing a CISPR quasi-put 110-490 kHz and above 10	is section shall not be located in to 4-216 MHz or 470-806 MHz. Howermitted under other sections of the tighter limit applies at the barn the above table are based on meak detector except for the frequence of MHz. Radiated emission limits a employing an average detector.	nd edges. neasurements ency bands 9–90 kHz, in these three bands
Test Method:	ANSI C63.10-2013 section KDB 558074 D01 15.247 M		Po
POC	above the ground at a 3 or 360 degrees to determine the b. For above 1GHz, the EU above the ground at a 3 me degrees to determine the poc. The EUT was set 3 or 10 which was mounted on the d. The antenna height is valued to the antenna the maximum valued polarizations of the antenna e. For each suspected emist the antenna was turned from 0 degrees f. The test-receiver system of the standard to the standard trom 0 degrees for the test-receiver system of the standard trom 0 degrees for the test-receiver system of the standard trom 0 degrees for the standard trom 0 degree	T was placed on the top of a rotating meter semi-anechoic chamber, the position of the highest radiation. The was placed on the top of a rotation of the highest radiation. The table of the highest radiation, meters away from the interference top of a variable-height antenna to ried from one meter to four meters are set to make the measurements on, the EUT was arranged to its eights from 1 meter to 4 meters (from the was tuned to heights 1 meter) and to 360 degrees to find the maximular was set to Peak Detect Function and the maximular are set to peak Detect Function and the seminar of	The table was rotated in. ing table 1.5 meters able was rotated 360 se-receiving antenna, ower. is above the ground to zontal and vertical int. is worst case and then for the test frequency of did the rotatable table um reading.
OCE	specified, then testing could reported. Otherwise the em tested one by one using per reported in a data sheet. h. Test the EUT in the lowes i. The radiation measureme Transmitting mode, and fou j. Repeat above procedures Remark:	e EUT in peak mode was 10dB lo be stopped and the peak values issions that did not have 10dB mark, quasi-peak or average methods to channel, the middle channel, the nts are performed in X, Y, Z axis pand the X axis positioning which it a until all frequencies measured was	of the EUT would be argin would be red as specified and then the Highest channel. Consitioning for is the worst case. as complete.
CK		z, through pre-scan found the work, Tangtou, Shiyan, Bao'an District, Shenz	



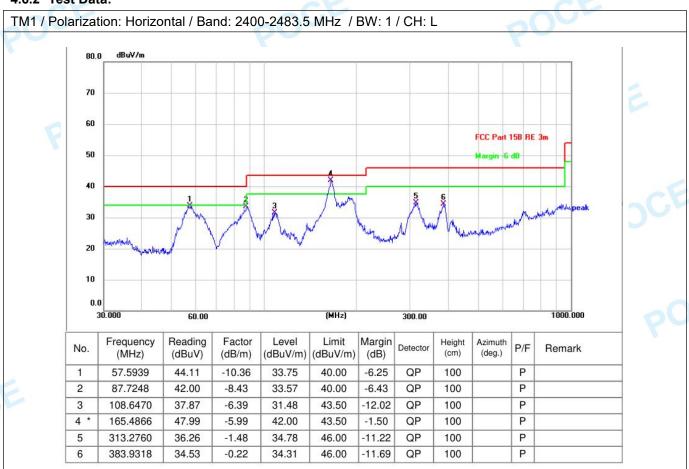
channel. Only the worst case is recorded in the report.

- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows: Final Test Level =Receiver Reading + Antenna Factor + Cable Factor "C Preamplifier Factor
- 3) Scan from 9kHz to 25GHz, the disturbance above 12.75GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported. Fundamental frequency is blocked by filter, and only spurious emission is shown.

4.6.1 E.U.T. Operation:

Operating Envir	onment:					
Temperature:	22.8 °C		Humidity:	49.7 %	Atmospheric Pressure:	102 kPa
Pretest mode:		TM1	DO		PO.	
Final test mode:		TM1				

4.6.2 Test Data:



Р

Р

5

370.7023

948.7610

30.73

25.91

-0.28

8.95

30.45

34.86

46.00

46.00

-15.55

-11.14

QP

QP

100

100

TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: L dBuV/m 80.0 70 60 FCC Part 15B RE 3m 50 40 30 20 10 0.0 30.000 (MHz) 1000.000 60.00 300.00 Frequency Reading Factor Level Limit Margin Height Azimuth Detector P/F Remark (dBuV) (dBuV/m) (dBuV/m) (deg.) (MHz) (dB/m) (dB) 31.0706 24.34 0.34 24.68 40.00 QP 100 -15.32 2 167.2368 41.58 -6.01 35.57 43.50 -7.93 QP 100 Р 190.4050 43.67 -6.65 37.02 43.50 -6.48 QP 100 Р 311.0867 36.54 -1.52 46.00 10.98 Р 4 35.02 QP 100



4.7 Emissions in frequency bands (above 1GHz)

Test Requirement:		ons which fall in the restricted ba y with the radiated emission limit	
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
-E	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
ace.	The emission limits shown employing a CISPR quasi-p 110–490 kHz and above 10	r, the tighter limit applies at the based on in the above table are based on in the above table are based on in the detector except for the frequency on MHz. Radiated emission limits employing an average detecto	measurements uency bands 9–90 kHz, s in these three bands
Test Method:	ANSI C63.10-2013 section KDB 558074 D01 15.247 M	6.6.4	POS
Procedure:	above the ground at a 3 or 360 degrees to determine to b. For above 1GHz, the EU above the ground at a 3 medegrees to determine the process. The EUT was set 3 or 10 which was mounted on the d. The antenna height is variations.	T was placed on the top of a rota 10 meter semi-anechoic chambe he position of the highest radiation. T was placed on the top of a rota eter fully-anechoic chamber. The position of the highest radiation. meters away from the interferen top of a variable-height antenna ried from one meter to four mete lue of the field strength. Both hor	er. The table was rotated on. ating table 1.5 meters table was rotated 360 ace-receiving antenna, tower. rs above the ground to
P	e. For each suspected emist the antenna was tuned to helow 30MHz, the antenna was turned from 0 degrees f. The test-receiver system Bandwidth with Maximum Hg. If the emission level of the specified, then testing could reported. Otherwise the emission level of the specified of t	e EUT in peak mode was 10dB I I be stopped and the peak value issions that did not have 10dB m	ts worst case and then (for the test frequency of and the rotatable table num reading. and Specified ower than the limit as of the EUT would be nargin would be re-
OCE	reported in a data sheet. h. Test the EUT in the lower i. The radiation measureme Transmitting mode, and fou j. Repeat above procedures Remark:	ak, quasi-peak or average methons to channel, the middle channel, the middle channel, the ints are performed in X, Y, Z axis not the X axis positioning which it is until all frequencies measured was, through pre-scan found the work.	he Highest channel. positioning for t is the worst case. was complete.

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channel. Only the worst case is recorded in the report.

- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows: Final Test Level =Receiver Reading + Antenna Factor + Cable Factor "C Preamplifier Factor
- 3) Scan from 9kHz to 25GHz, the disturbance above 12.75GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported. Fundamental frequency is blocked by filter, and only spurious emission is shown.

4.7.1 E.U.T. Operation:

Operating Environment:											
Temperature:	22.8 °C		Humidity:	49.7 %	Atmospheric Pressure:	102 kPa					
Pretest mode:		TM1,	TM2, TM3								
Final test mode:		TM1,	TM2, TM3								

4.7.2 Test Data:

TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: L

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	4804.000	37.57	3.10	40.67	74.00	-33.33	peak	100		Р	
2	4804.000	26.89	3.10	29.99	54.00	-24.01	AVG	100		Р	
3	7206.000	35.40	10.13	45.53	74.00	-28.47	peak	100		Р	
4	7206.000	24.82	10.13	34.95	54.00	-19.05	AVG	100		Р	
5	9608.000	34.43	15.09	49.52	74.00	-24.48	peak	100		Р	
6 *	9608.000	24.74	15.09	39.83	54.00	-14.17	AVG	100		Р	

TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: L

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	4804.000	37.74	3.72	41.46	74.00	-32.54	peak	100		Р	
2	4804.000	27.07	3.72	30.79	54.00	-23.21	AVG	100		Р	
3	7206.000	36.26	10.09	46.35	74.00	-27.65	peak	100		Р	
4	7206.000	24.80	10.09	34.89	54.00	-19.11	AVG	100		Р	
5	9608.000	35.33	15.02	50.35	74.00	-23.65	peak	100		Р	
6 *	9608.000	24.74	15.02	39.76	54.00	-14.24	AVG	100		Р	

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TM2 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: M

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	4880.000	36.86	3.97	40.83	74.00	-33.17	peak	100		Р	
2	4880.000	26.93	3.97	30.90	54.00	-23.10	AVG	100		Р	
3	7320.000	34.23	10.36	44.59	74.00	-29.41	peak	100		Р	
4	7320.000	24.84	10.36	35.20	54.00	-18.80	AVG	100		Р	
5	9760.000	34.47	15.12	49.59	74.00	-24.41	peak	100		Р	
6 *	9760.000	24.50	15.12	39.62	54.00	-14.38	AVG	100		Р	

TM2 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: M

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	4880.000	37.22	3.35	40.57	74.00	-33.43	peak	100		Р	
2	4880.000	26.87	3.35	30.22	54.00	-23.78	AVG	100		Р	
3	7320.000	35.14	10.31	45.45	74.00	-28.55	peak	100		Р	
4	7320.000	24.84	10.31	35.15	54.00	-18.85	AVG	100		Р	
5	9760.000	34.49	15.09	49.58	74.00	-24.42	peak	100		Р	
6 *	9760.000	24.61	15.09	39.70	54.00	-14.30	AVG	100		Р	
										_	



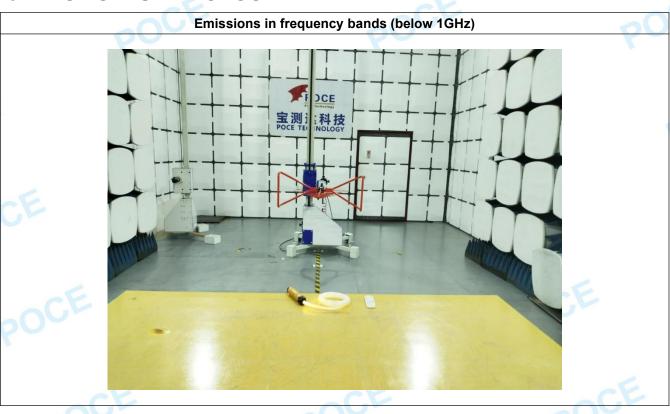
TM3 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: H

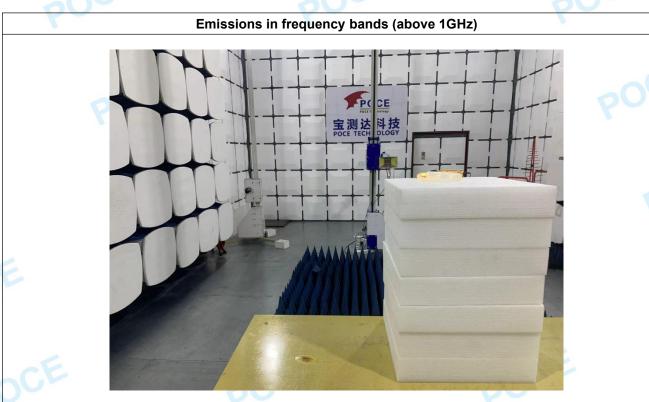
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	4960.000	37.90	3.63	41.53	74.00	-32.47	peak	100	250000	Р	
2	4960.000	26.81	3.63	30.44	54.00	-23.56	AVG	100		Р	
3	7440.000	34.55	10.49	45.04	74.00	-28.96	peak	100		Р	
4	7440.000	24.71	10.49	35.20	54.00	-18.80	AVG	100		Р	
5	9920.000	35.76	15.08	50.84	74.00	-23.16	peak	100	2	Р	Î
6 *	9920.000	24.96	15.08	40.04	54.00	-13.96	AVG	100		Р	

TM3 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: H

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	4960.000	36.72	4.23	40.95	74.00	-33.05	peak	100		Р	
2	4960.000	26.58	4.23	30.81	54.00	-23.19	AVG	100		Р	
3	7440.000	35.44	10.64	46.08	74.00	-27.92	peak	100		Р	
4	7440.000	24.48	10.64	35.12	54.00	-18.88	AVG	100		Р	
5	9920.000	36.34	15.23	51.57	74.00	-22.43	peak	100		Р	
6 *	9920.000	24.92	15.23	40.15	54.00	-13.85	AVG	100		Р	

5 TEST SETUP PHOTOS





6 PHOTOS OF THE EUT





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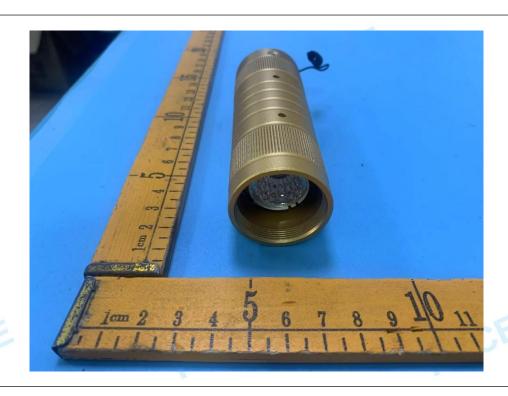










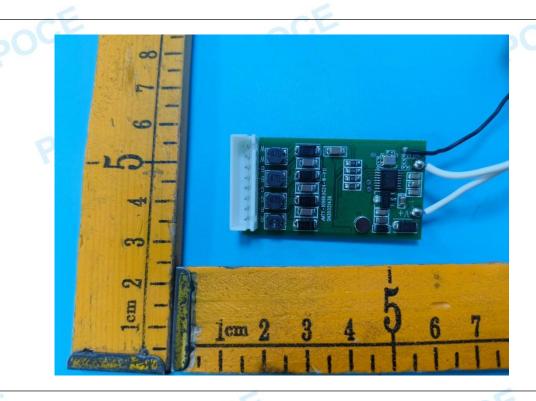






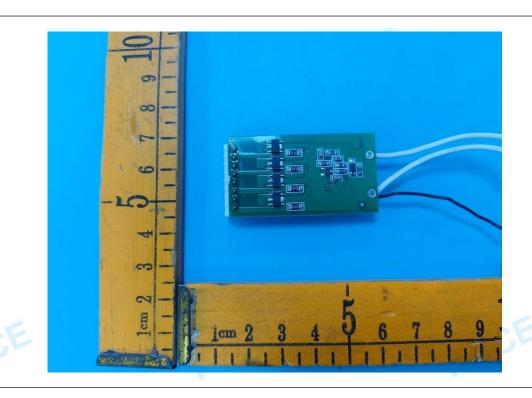








V1.0



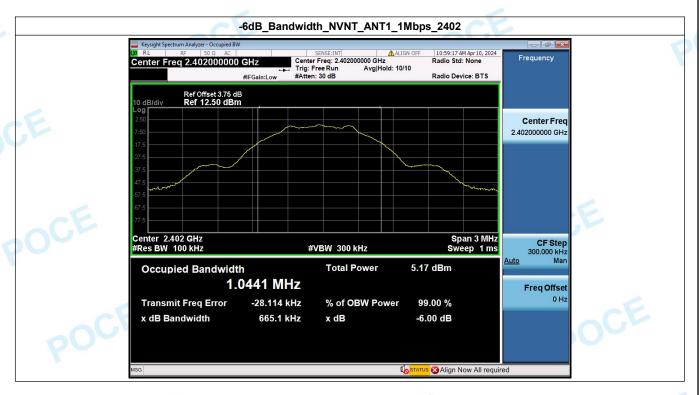


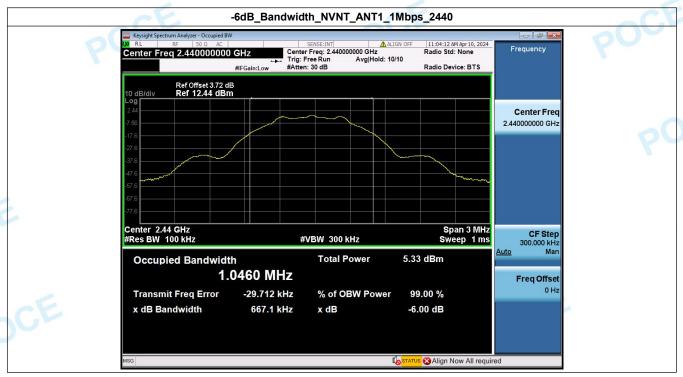
Appendix •••••



1. -6dB Bandwidth

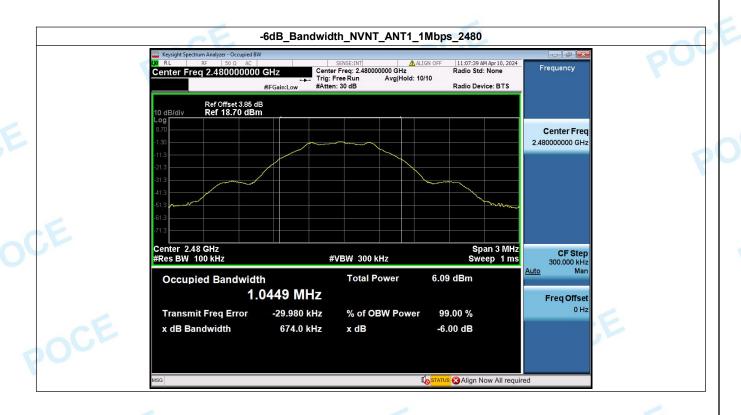
Condition	Antenna	Rate	Frequency (MHz)	-6dB BW(kHz)	limit(kHz)	Result
NVNT	ANT1	1Mbps	2402	665.09	500	Pass
NVNT	ANT1	1Mbps	2440.00	667.14	500	Pass
NVNT	ANT1	1Mbps	2480	674.01	500	Pass





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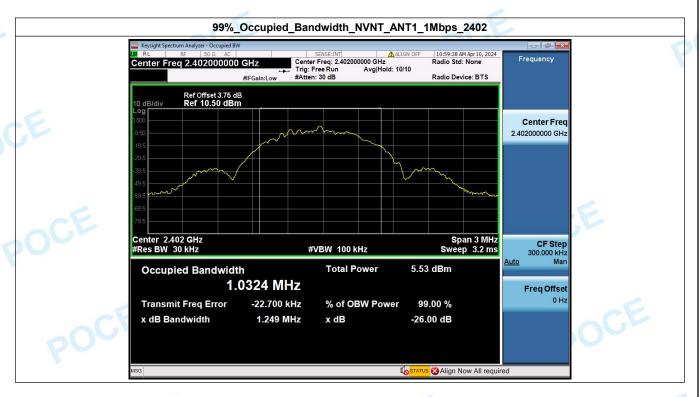


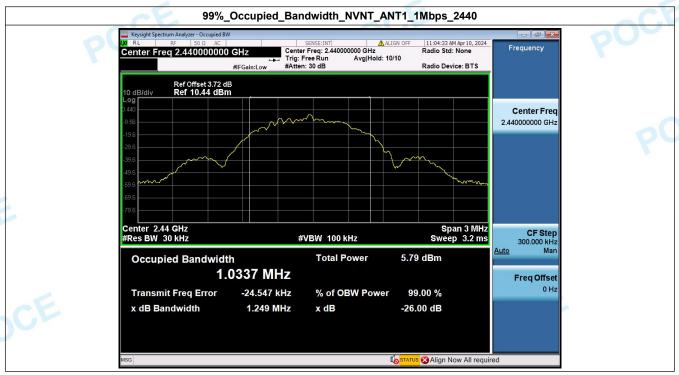




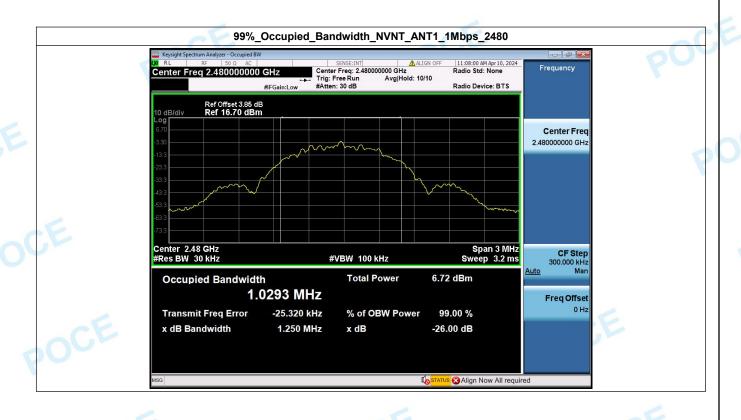
2. 99% Occupied Bandwidth

Condition	Antenna	Rate	Frequency (MHz)	99%%BW(MHz)	
NVNT	ANT1	1Mbps	2402	1.032	
NVNT	ANT1	1Mbps	2440.00	1.034	
NVNT	ANT1	1Mbps	2480	1.029	





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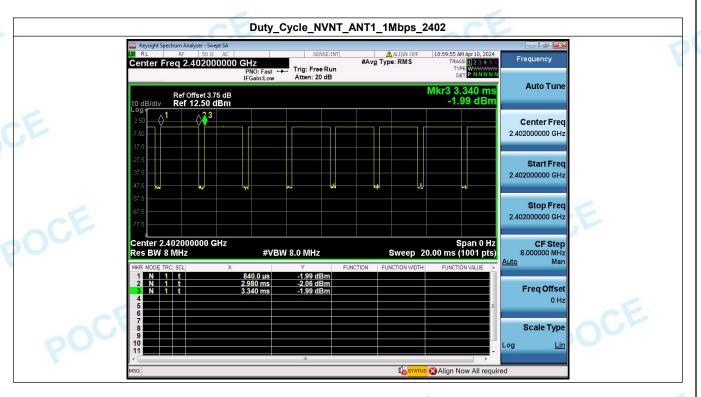


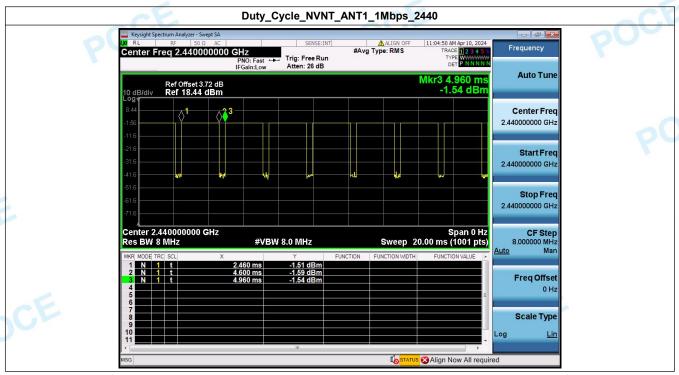


3. Duty Cycle

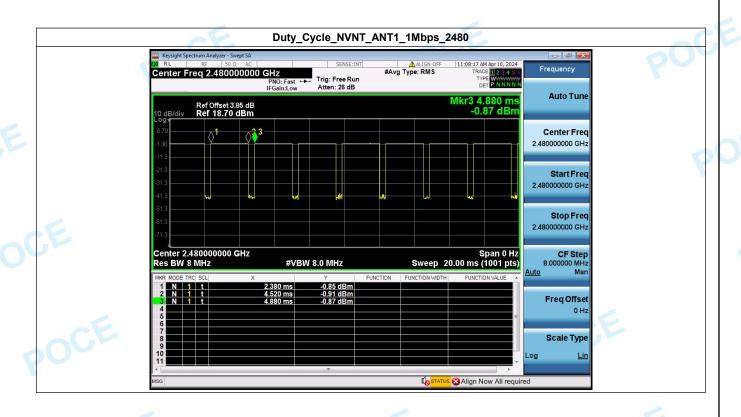
V1.0

Condition	Antenna	Rate	Frequency (MHz)	Dutycycle(%)	Duty_factor	
NVNT	ANT1	1Mbps	2402	86.40	0.63	
NVNT	ANT1	1Mbps	2440.00	86.40	0.63	
NVNT	ANT1	1Mbps	2480	86.40	0.63	





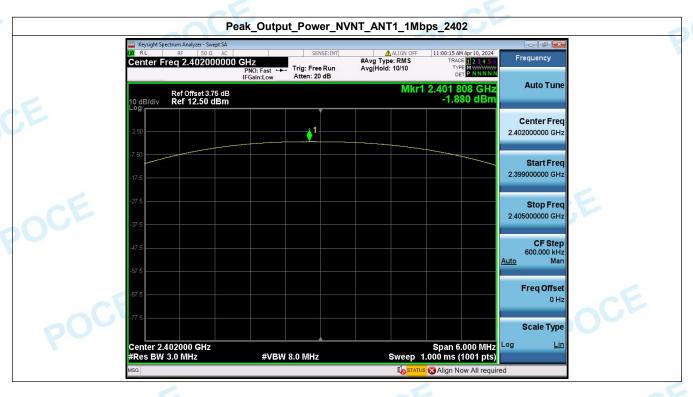
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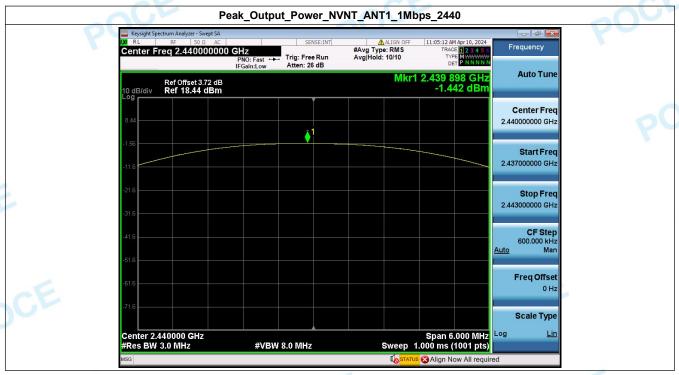




4. Peak Output Power

Condition	Antenna	Rate	Frequency (MHz)	Max. Conducted Power(dBm)	Max. Conducted Power(mW)	Limit(mW)	Result
NVNT	ANT1	1Mbps	2402	-1.88	0.65	1000	Pass
NVNT	ANT1	1Mbps	2440.00	-1.44	0.72	1000	Pass
NVNT	ANT1	1Mbps	2480	-0.77	0.84	1000	Pass

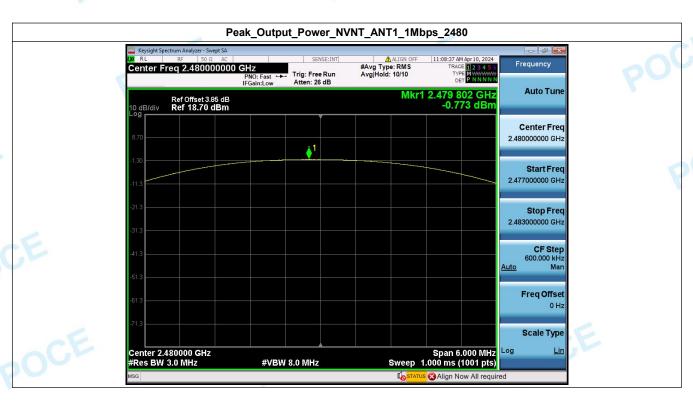




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Report No.: POCE240407002RL001







5. Power Spectral Density

V1.0

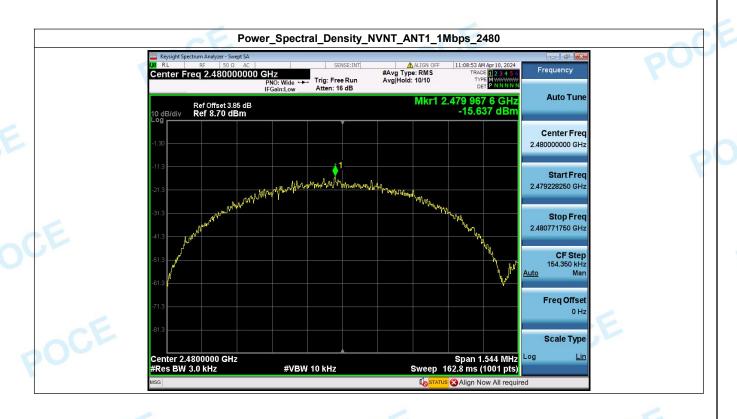
Condition	Antenna	Rate	Frequency (MHz)	Power Spectral Density(dBm)	Limit(dBm/3kHz)	Result
NVNT	ANT1	1Mbps	2402	-18.10	8	Pass
NVNT	ANT1	1Mbps	2440.00	-17.39	8	Pass
NVNT	ANT1	1Mbps	2480	-15.64	8	Pass





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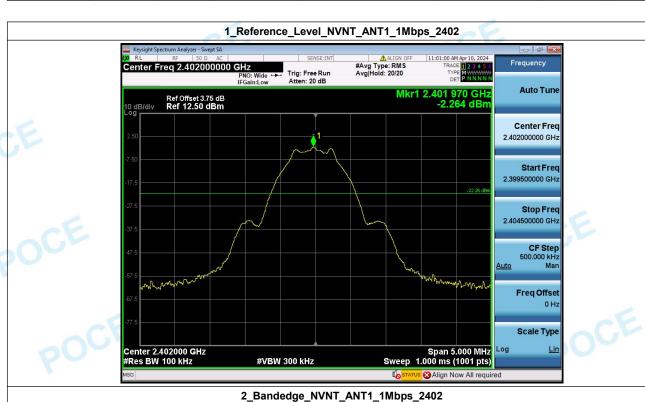
Scale Type

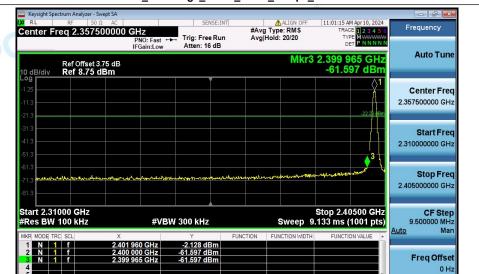


6. Bandedge

V1.0

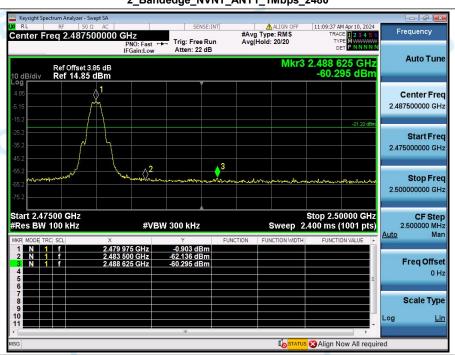
Condition	Antenna	Rate	TX_Frequency (MHz)	Max. Mark Frequency (MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	1Mbps	2402	2399.965	-61.597	-22.264	Pass
NVNT	ANT1	1Mbps	2480	2488.625	-60.295	-21.222	Pass





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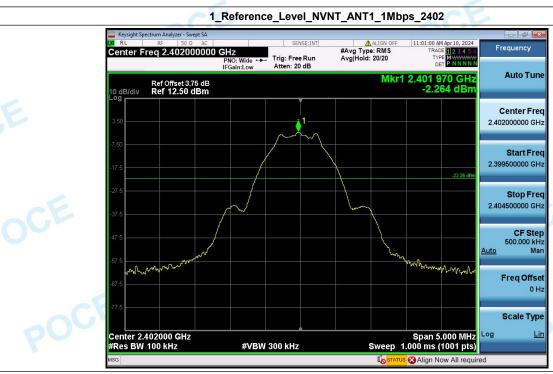




7. Spurious Emission

V1.0

Condition	Antenna	Rate	TX_Frequency(MHz)	Spurious MAX.Value(dBm)	Limit	Result
NVNT	ANT1	1Mbps	2402	-54.607	-22.264	Pass
NVNT	ANT1	1Mbps	2440.00	-54.992	-21.743	Pass
NVNT	ANT1	1Mbps	2480	-49.189	-21.222	Pass



2_Spurious_Emission_NVNT_ANT1_1Mbps_2402

